

20000629.ba v02_n936.bam.20000629

>From ???@??? Thu Jun 29 22:38:30 2000 -0500
Message-Id: <200006300335.e5U3Zq917788@sco.theporch.com>
Date: Thu, 29 Jun 2000 22:35:30 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2936

BOATANCHORS Digest 2936

Topics covered in this issue include:

- 1) Hallicrafters SW500/S120
by "John Gibson" <gibsonj@mindspring.com>
- 2) tubeid 6528A
by Roy Morgan <roy.morgan@nist.gov>
- 3) ADMINISTRIVIA: Posting Admin Requests
by listown@jackatak.theporch.com (Mail List Owner)
- 4) B40 ?
by BEN NOCK <G4BXD@compuserve.com>
- 5) Re: HO-610 pwr xfmr
by polepeeg@aaa4rm.ba-watch.org (Marty's Refl. Drop)
- 6) Re: tubeid 6528A
by Arden Allen <gumbear@pacbell.net>
- 7) Re: Silverfish
by "Barry L. Ornitz" <ornitz@tricon.net>
- 8) Re: Heathkit HO-610
by "Barry L. Ornitz" <ornitz@tricon.net>
- 9) Re: Need Help: 6Y6 TX? 304TL? HDVL?
by "russ dworakowski" <wb3fau@hotmail.com>
- 10) Re: Silverfish
by "russ dworakowski" <wb3fau@hotmail.com>
- 11) Silverfish -- summary and more information
by Arden Allen <gumbear@pacbell.net>
- 12) WTB: HP manuals for: 3400A and 427A Voltmeters
by Roy Morgan <roy.morgan@nist.gov>
- 13) Identify Kon-Tiki LI2B transmitter
by Richard Post <post@ouvaxa.cats.ohiou.edu>
- 14) Warren Anderson Please Contact Me
by "Andrew E. Howard, Sr." <sweetbay@compuserve.com>
- 15) Re: GB> batteries and charging
by "Don Ehrlich" <ehrlich@olypen.com>
- 16) KPH Calling Frequencies
by Dick Dillman <ddillman@igc.org>
- 17) Re: [National] CCA AM night!
by thompson@mindspring.com
- 18) Pesticides, other chemical worries, and modern times

by "Barry L. Ornitz" <ornitz@tricon.net>

Message-Id: <200006281518.LAA26617@blount.mail.mindspring.net>

Date: Wed, 28 Jun 2000 08:27:04 +0100

Subject: Hallicrafters SW500/S120

From: "John Gibson" <gibsonj@mindspring.com>

To: Old Tube Radios <boatanchors@theporch.com>

Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit

I just discovered that my garage sale Hallicrafters SW500 is actually a S120 in civilian disguise. So if anyone has a parts S120, would appreciate the panel behind the knobs. Can trade something useful or buy.

John, Berkeley, Calif.

Message-Id: <4.2.0.58.20000628113451.00b72290@sdct-sunsv1.ncsl.nist.gov>

Date: Wed, 28 Jun 2000 11:37:32 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: Roy Morgan <roy.morgan@nist.gov>

Subject: tubeid 6528A

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:56 AM 6/28/00 -0500, you wrote:

> I'm staring at a pair of JAN 6528A's. After going through all
> my books , I'm still no wiser as to whats their equivalent. Help me
> please Guru's and TNX for all the past help!

Same as the 6336 dual triode series regulator but with an amplification factor of 9 instead of 2.7.

for summary data see:

<http://fido.wps.com/www.wps.com/archives/tube-datasheets/index.html>

Specifically:

<http://fido.wps.com/www.wps.com/archives/tube-datasheets/Datasheets/Raytheon-SP-7106-1260-20M/4JPG>

and

<http://fido.wps.com/www.wps.com/archives/tube-datasheets/Datasheets/Raytheon-SP-7106-1260-20M/5.JPG>

Roy
-Keep em glowing!
Roy Morgan, K1LK Y since 1959
7130 Panorama Drive
Derwood MD 20855
301-330-8828

Message-Id: <200006281615.e5SGF0120466@jackatak.theporch.com>
From: listown@jackatak.theporch.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Posting Admin Requests
Date: Wed, 28 Jun 2000 11:15:00 CDT

Gang-

Please accept this periodic posting as it is intended:
A suggestion that will help everyone on the list...

If there is a problem with your email, i.e., the list suddenly stops coming to you, or if you have problems with someone else's mail, PLEASE address any questions to, and seek help from:

listown@jackatak.theporch.com

There is really no one on the list who can help you with a problem, and if I don't happen to see your post, nothing will happen, except you may irritate the other list members... needlessly.

This is *especially* true of the "XXXX YYYYY your mail is bouncing, please send me a good address"

If your mail to this person is bouncing, in all likelihood, either you have the address a bit wrong, or s/he isn't receiving mail from ANYWHERE *especially* not from the list, which is delivered as "Bulk!"

Treat the list as a symposium.

In such an environment, with many folks attending who have paid to be here, it is unlikely you would take up the symposium's resources to solve an individual problem with your seating...

So, if you encounter a problem, PLEASE remember to send your questions to me, the one person who can help, at:

listown@jackatak.theporch.com

Thanks for your attention

73

[illegible]

BN.

Marty

Date: Wed, 28 Jun 2000 12:28:08 -0700

Roy and devotees;

<http://fido.wps.com/www.wps.com/archives/tube-datasheets/Datasheets/Raytheon>

This is Roy's link properly bracketed:

n-SP-7106-1260-20M/5.JPG>

Just meddling again.

Message-ID: <004001bfe14b\$a18afae0\$9a5c62d8@naxs.com>
From: "Barry L. Ornitz" <ornitz@tricon.net>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Silverfish
Date: Wed, 28 Jun 2000 17:55:51 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Arden Allen, KB6NAX, asked about protecting Boatanchor-era books from silverfish, to which Russ Dworakowski, WB3FAU, suggested the use of Chlordane insecticide.

I dislike having to be so blunt here, but this is plain STUPID and DANGEROUS advice.

Chlordane is a persistent insecticide, which is why it was used for underground termite treatment. No reputable exterminator would even sell an individual Chlordane for the application described - if he even had it. Because of concern about the risk of cancer, use of chlordane was canceled in April, 1988. Between 1983 and 1988 the only permitted use for chlordane was for control of subterranean termites. Chlordane is no longer distributed in the U.S. The only commercial use still permitted is for fire ant control in power transformers.

Chlordane is readily absorbed through the skin, and every time you handled a book treated with it, you would be exposed. Since chlordane and its metabolites accumulate in the liver, the exposure would be cumulative.

This is the reason I suggested 5% Sevin (Carbaryl) powder. While toxic, like all insecticides, it has an extremely low persistence. It is not considered carcinogenic. In fact, male volunteers who consumed low doses of carbaryl for 6 weeks did not show symptoms. [But tests did indicate slight changes in their body chemistry; a 2-year study with rats revealed no effects at or below a dose of 10 mg/kg/day.]

I also suggested the use of paradichlorobenzene (urinal deodorant blocks or cakes). This too is toxic and is considered carcinogenic with long exposure. But the application called for sealing the books in plastic bags with some of the para, placing in a warm place, and letting the vapors permeate the books, so exposure to the chemical would be minimal. I also said to air the books out before reshelving them. This will allow any residual vapors to dissipate, leaving the books harmless to handle in the

future.

Please people, if you are going to suggest the use of chemicals, understand the risks and hazards involved first. For those reading the suggestions, check out the source of the information too. I usually consult my technical library, or reputable online sources before posting chemical information to this group - even though I have spent over 35 years routinely working with chemicals.

And if Russ takes this post to be an insult, so be it. I consider the safety of those reading these posts to be far more important than to care what an individual thinks of me personally.

73, Barry L. Ornitz WA4VZQ ornitz@tricon.net

Message-ID: <007401bfe14e\$5627a280\$9a5c62d8@naxs.com>
From: "Barry L. Ornitz" <ornitz@tricon.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Boatanchors Mailing List" <boatanchors@theporch.com>
Subject: Re: Heathkit HO-610
Date: Wed, 28 Jun 2000 18:15:14 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Stan McIntosh asked about the HO-610 Monitor Scope.

The biggest problem with these units was that Heath used a 1600 volt capacitor in the high voltage circuit that often failed. They did this with several oscilloscopes too, and it is the reason for many failures. Replacement with a quality capacitor, like a surplus oil-filled unit, or a modern one with a somewhat higher voltage rating is the normal fix.

73, Barry WA4VZQ ornitz@tricon.net

Message-ID: <20000629025238.51871.qmail@hotmail.com>
From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Need Help: 6Y6 TX? 304TL? HDVL?
Date: Wed, 28 Jun 2000 22:52:38 EDT
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Really not directly related but I have an old Sentinel
BW TV set circa 1947 that uses the 6Y6 in the HV section.
The screen is 7 inches. Russ

>
>As Merz Donald S discourses
> >
> > Hi. I am still fiddling with various homebrew rigs here and can use some
> > help. One of the two current projects is what appears to be a 40M QRP
> > CW-only transmitter. The final tube is a 6Y6. But the other tubes are
>more
> > modern miniatures. Build quality is absolutely first class with
>meticulous
> > hand-fitted sheet metal work, hand-wound chokes and coils--very classy.
>But
> > why the 6Y6 for a final? Has anyone seen any circuits from 1975 or
>earlier
> > using miniature tubes with a 6Y6 final? There is a date of 6-20-75
>scratched
> > into the side of the chassis apron so I went through some 70's ARRL and
> > RADIO handbooks looking for a matching project. But I came up empty. Any
> > help or ideas appreciated.
> >
>This could very well have been done by a "design your own" type, not a
>copy of a project.
>
>Nothing wrong with a 6Y6. Its characteristics are closer to those of
>a 50L6 or a junior 6146 than they are to a 6V6. In particular, very
>high transconductance, and keep the screen voltage down in the 100
>volt range, even if you use a higher plate voltage.
>
>Per RCA's RC-19 manual, in class C RF service, typical parameters are:
>Plate voltage 350 max.; screen, 115 (135 max), bias -40 (-90 max),
>plate current 60 ma. (80 max), screen current 5.1 ma., plate input 23
>watts max/output approx. 14 watts. Dissipations: plate 8W max, screen
>0.6 watt max., driving power 0.1 watt.

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Message-ID: <20000629030910.58309.qmail@hotmail.com>
From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Silverfish
Date: Wed, 28 Jun 2000 23:09:10 EDT

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

Not a problem , Barry, I am no expert in this area and I respect your opinion and information. In another string I mentioned how effective it was, probably too effective! This was about 30 years ago, and I think we all respect this stuff a lot more now.
Russ

>From: "Barry L. Ornitz" <ornitz@tricon.net>
>Reply-To: "Barry L. Ornitz" <ornitz@tricon.net>
>To: "russ dworakowski" <wb3fau@hotmail.com>, "Old Tube Radios"
><boatanchors@theporch.com>
>Subject: Re: Silverfish
>Date: Wed, 28 Jun 2000 17:55:51 -0400
>
>Arden Allen, KB6NAX, asked about protecting Boatanchor-era
>books from silverfish, to which Russ Dworakowski, WB3FAU,
>suggested the use of Chlordane insecticide.
>
>I dislike having to be so blunt here, but this is plain
>STUPID and DANGEROUS advice.
>
>Chlordane is a persistent insecticide, which is why it was
>used for underground termite treatment. No reputable
>exterminator would even sell an individual Chlordane for the
>application described - if he even had it. Because of
>concern about the risk of cancer, use of chlordane was
>canceled in April, 1988. Between 1983 and 1988 the only
>permitted use for chlordane was for control of subterranean
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>The only commercial use still permitted is for fire ant
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>
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>time you handled a book treated with it, you would be
>exposed. Since chlordane and its metabolites accumulate in
>the liver, the exposure would be cumulative.
>
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>While toxic, like all insecticides, it has an extremely low
>persistence. It is not considered carcinogenic. In fact,
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>For those reading the suggestions, check out the source of
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>years routinely working with chemicals.
>
>And if Russ takes this post to be an insult, so be it. I
>consider the safety of those reading these posts to be far
>more important than to care what an individual thinks of me
>personally.
>
> 73, Barry L. Ornitz WA4VZQ ornitz@tricon.net
>

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Wed, 28 Jun 2000 23:53:43 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Silverfish -- summary and more information
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FWW009WWLU0T8@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Bugsters;

In response to my request for guidance to evict my silverfish tennants I got mostly recommendations to use moth balls and "DEKKO Silverfish Packets". The DEKKO's are supposed to be available through various home supply outfits but a web search revealed only a fabrics house (Lacis) carrying the product. A posting on one discussion board asked if the

product still existed and did it come from a company in Nevada.

Well, for the small amount of time I spent searching I got some good information on the critters themselves and how to deal with them. Go to:

<<http://www.ag.ohio-state.edu/~ohioline/hyg-fact/2000/2108.html>>,

<<http://www.bugspray.com/articles98/silverfish.html>>,

<<http://www.landspetcontrol.com/Silverfish.htm>>,

<<http://www.pestproducts.com/silverfish.htm>>,

and finally,

<http://www.doyourownpestcontrol.com/>

I gave up on DEKKO.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <4.2.0.58.20000629085801.00b1e100@sdct-sunsrv1.ncsl.nist.gov>

Date: Thu, 29 Jun 2000 09:01:59 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: Roy Morgan <roy.morgan@nist.gov>

Subject: WTB: HP manuals for: 3400A and 427A Voltmeters

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Anchorites,

I need manuals (or copies) for:

HP 3400A RMS Voltmeter S/N 528-xxxxx

HP 427A Voltmeter S/N 621-xxxxx

Thanks,

Roy

-Keep em glowing!

Roy Morgan, K1LKY since 1959

7130 Panorama Drive

Derwood MD 20855

301-330-8828

Message-Id: <v03007805b5816066bcc2@[132.235.46.157]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 29 Jun 2000 16:37:24 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Richard Post <post@ouvaxa.cats.ohiou.edu>
Subject: Identify Kon-Tiki LI2B transmitter

Anchorites,

The advertisement for the NC-173 in October 1947 (Radio-News and QST) led me to dig out the book "Kon-Tiki".

My NC-173 is pictured on the webpage below along with some quotes from the book.

<<http://oak.cats.ohiou.edu/~postr/bapix/NC173.htm>>

I also copied a photo from the book which shows the military hand cranked generator. What I believe is the transmitter is also pictured. The photo is on the island on which the Kon-Tiki shipwrecked, ending the voyage. It is on a non-linked URL (below). Can anyone identify the generator and transmitter?

<http://www.frognet.net/~postrd/rp/kntk_rad.JPG>

Thanks es 73 de Rich KB8TAD

Date: Thu, 29 Jun 2000 16:51:44 -0400
From: "Andrew E. Howard, Sr." <sweetbay@compuserve.com>
Subject: Warren Anderson Please Contact Me
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "LIST, POST BOATANCHORS" <BOATANCHORS@theporch.com>,
"LIST, POST HALLICRAFTERS" <hallicrafters@qth.net>,
"LIST, QTH NET" <vintage-radio@qth.net>
Message-ID: <200006291652_MC2-AAA5-EF5A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Warren,

The S meter has arrived and is in good condition. I have lost your e-mail=

address. Had a problem with the computer. Please contact me.

Andy, WA4KCY
sweetbay@compuserve.com

Message-ID: <003c01bfe23c\$59aba700\$9bf9cdd0@ehrllich>
From: "Don Ehrlich" <ehrllich@olypen.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "boatanchor message" <boatanchors@theporch.com>
Subject: Re: GB> batteries and charging
Date: Thu, 29 Jun 2000 19:37:52 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bill,

I was exposed to a lot of Ni-Cd and NiMH technology while working in avionics for many years. I am no expert on the subject but I can recall the gist of what the real experts said. Basically, the chemistry is nearly identical for the two battery types and they generally behave the same and require the same kind of treatment. One obvious advantage of NiMH is that this chemistry can more easily be optimized for high storage capacity and that is what they are known for.

Those are generalizations, of course.

More important, I think, is the fact that even for a single battery chemistry (NiCd for instance) the requirements and performance can vary widely among various brands although a sort of standard has evolved over the years.

The kind of charging, how much energy can be stored, susceptibility to memory effect, life, reliability (and whether it will explode the next time you charge it) all depend on those little details in design such as how thick the metal electrode material is, the ion permeability and other characteristics of the separator material, how tightly packed the whole thing is, characteristics of the electrolyte, and so on. Sometimes the choice of chemistry is less important than those other things.

Anyway, it is PROBABLY true that you can get away with treating your new batteries as if they were NiCd.

I talked to lots of very smart and experienced battery designers over the years and rarely got an answer any straighter than the one I have just written above. What does that tell you about the "science" of batteries?

The fact is that much of what passes for facts in the battery business is specsmanship, more so than in any other technology that I have run into.

Regards,

Don K7FJ

> I have been fortunate enough to get some NiMH (nickel metal hydride)
> batteries... that should be GREAT for filament / heater supply. Looks like
> a terminal voltage of 1.2 to 1.25 with a 3000 mA/Hr rating.
> Sooo... how do I charge these ?
> Can I just pop them into the cheapo charger I use for Ni Cads? Or will
> they promptly cook or otherwise be damaged? Should I use constant voltage
> or constant current. Does it matter? And what charge rate? Recharge at
> what terminal voltage? And all the other battery type questions that come
> to mind.
> ANY info would be appreciated...
> thanx - Bill H.
>
>

Message-Id: <3.0.5.32.20000629194527.007b1b90@pop.igc.org>
Date: Thu, 29 Jun 2000 19:45:27 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.org>
Subject: KPH Calling Frequencies
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Several people have asked about the calling frequencies we will monitor from KPH during the commemorative broadcast on 12 July so they might have a chance to copy any ships that might possibly call us. We will be monitoring ITU channels 3 and 4 in the 4/6/8/12/16 Mc bands. The specific frequencies are:

4184.0
4184.5
6276.0
6276.5
8368.0
8369.0
12552.0
12553.5
16736.0
16738.0

Happy listening...

Vy 73,

Dick

Dick Dillman, W6AWO
Chief Operator at K6KPH of the Maritime Radio Historical Society
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From: thompson@mindspring.com
Message-ID: <000201bfe23e\$378cfe60\$245a56d1@default>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: [National] CCA AM night!
Date: Thu, 29 Jun 2000 22:49:07 -0400

Larry WA9VRH invited everyone to the CCA AM nite and I was there at 9:30PM (o130Z) EDT.
I could hear W0NKL and a K5 in Texas, but QRN was 59+10 and sigs were at the same level except for the W0 and K5 who were 59+20. I put on my receiving antenna and copied everyone at least Q4 but there was a W2/W3 group on 3884 and a pair of Florida AMers on 3885. I tried calling in three times but could only get the attention of the W3 and the Florida hams. I did copy a WB5 in Jackson, MS but he was not as loud as the other stations. Beside the W0NKL and K5 I copied parts of K0BS, K80F(solid), K8XU, W5SUM, a W9, and heard several others trying to call in. A W4 TN a W8 (Wva), and a K9DOF (I think).

Fellows, with the summer static you need to look into a receiving antenna such as the K9AY loop or the QST July 2000 article on receiving antennas. Put one up that will also receive on 160.

The Florida ham copied me 59+40 and the W3 could read me but could not hear any of the CCA stations. I was running the AF-67 driving the 3-500Z at 300W and receiving on the hQ170A-VHF (I use the gear on 10AM too).

Hopefully the CCA group will have another session in the Fall.

73 Dave K4JRB
Near Atlanta

> Hi everyone just wanted to remind you all that anyone running anything AM
> is welcome
> to check into the CCA AM night! You don't need to be running Collins
> gear to checkin. I am one of the net controls and I will be using my
> Ranger driving my 30L-1. So drop by and see us tomorrow (Thursday) night.
> There should be alot of great AM signals!
> 73's de Larry WA9VRH
>

Message-ID: <000c01bfe244\$2e081b80\$715c62d8@naxs.com>
From: "Barry L. Ornitz" <ornitz@tricon.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Pesticides, other chemical worries, and modern times
Date: Thu, 29 Jun 2000 23:35:02 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

First, allow me to apologize for coming down hard on Russ about Chlordane. My concern was that while Chlordane has not been available to the general public for many years, there is a sizable amount tucked away in basements and garages from the days when it was popular. The big worry is that a person would suffer repeated exposure if it were used on books.

If I may philosophize a little (and there is a Boatanchor connection), Chlordane is representative of a number of things that were pulled from the market because some people just could not use it wisely. Proper subsoil treatment with Chlordane gave excellent termite protection, and if the application were performed properly, produced little danger to people, animals or the environment. But unfortunately, it was abused - both by the public itself and even by not-so-professional exterminators. This lead to its removal from the market. Modern termiticide barriers generally work for about five years compared to the 20+ years for Chlordane.

Some things were pulled from the market, however, like white lead (litharge) in paint where the replacement material (usually titanium dioxide) worked far better. Selenium rectifiers, when they failed, emitted toxic fumes. Modern silicon rectifiers do not, and they solve many other

problems with selenium too. So not all modern replacements are bad.

But one material that was pulled without an adequate replacement, and an important one to restorers of old radio gear, was 1,1,2-trichloro-1,2,2-trifluoroethane, Freon-TF or Freon 113. This was the ideal electronic solvent for contact cleaners, degreasers, etc. It was nonflammable, had a relatively low toxicity, a low surface tension, was denser than water, harmed virtually no plastics or paints, evaporated quickly, and it was an excellent solvent for both silicone and conventional petroleum oils and greases.

No present solvent possesses all these properties. Some are not too flammable, but they attack many plastics. Others leave most plastics unharmed, but they are extremely flammable. Some are rather toxic, and some evaporate quite slowly. Where I once had a can of Freon TF, I now have to have about five to seven different solvents depending on the application.

I do not deny that Freon TF is an ozone destroying CFC, but its use was miniscule compared to the amount of refrigerant Freon CFC's released each year by defective automobile air conditioners where people found it cheaper to buy a few cans of refrigerant every year than to have the leaking systems fixed.

Until a universal replacement is found, I guess we Boatanchor restorers are stuck with making the choice of which replacement materials to use. In the mean time, I have stored away about 18 ounces of vintage-TF. Like fine wine, it only comes out for special occasions!

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